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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	-1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1

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8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.26	2	2
9	PCC(M15)	Compressive Strength(7days and 28days)	1 set	47.36	2	2
10	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.74	2	2
11	RCC(M25)	Compressive Strength(7days and 28days)	3 sets	10.46	6	6
12	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.43	2	2
13	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	10.83	4	4
14	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.84	2	2
15	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-24-30 **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No.04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269.2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory

Quality Manager

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Format No CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-24-30 **Date: 31-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No 04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269 2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	03-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-04-24-30 **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	211	211	1.4	98.6	90-100
3	20 mm	7355	7566	50.4	49.6	30-70
4	10 mm	4219	11785	78.6	21.4	10-35
5	4.75 mm	2855	14640	97.6	2.4	0-5
6	Pan	360	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-24-30** **Date: 05-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-24-30** **Date: 04-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-04-24-30 **Date: 04-01-23**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-01-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-01-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-04-24-30**	**Date: 04-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division	
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-01-23	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.	
Date of test	:	03-01-23	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe550	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-04-24-30

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Date: 17/01/2023

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-01-23

Customer ID : Coping concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping concrete	M15	10/01/2023	17/01/2023	149.89 X 149.72 X 151.01	22442	9.002	274.7	12.2	12.3
2	Coping concrete	M15	10/01/2023	17/01/2023	149.06 X 150.36 X 151.48	22413	8.103	275.7	12.3	
3	Coping concrete	M15	10/01/2023	17/01/2023	149.29 X 149.70 X 151.42	22349	8.768	273.1	12.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/02/2023

Lab ID	:	CP-2023-04-24-30
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-23
Customer ID	:	Coping concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Coping concrete	M15	10/01/2023	07/02/2023	149.76 X 151.16 X 150.23	22639	8.325	404.7	17.9	17.6
2	Coping concrete	M15	10/01/2023	07/02/2023	151.65 X 149.73 X 151.88	22706	8.656	407.6	18.0	
3	Coping concrete	M15	10/01/2023	07/02/2023	149.38 X 149.28 X 151.68	22299	8.872	379.5	17.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30

Date: 14/01/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-01-23

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	07/01/2023	14/01/2023	150.63 X 150.84 X 150.44	22721	8.812	539.7	23.8	22.9
2	Footing Concrete	M25	07/01/2023	14/01/2023	150.00 X 150.52 X 150.15	22578	8.713	511.5	22.7	
3	Footing Concrete	M25	07/01/2023	14/01/2023	151.41 X 149.31 X 150.62	22607	8.327	505.7	22.4	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Agency/Representative

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30

Date: 04/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-01-23

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	07/01/2023	04/02/2023	151.72 X 151.97 X 149.82	23057	8.421	633.7	27.5	27.6
2	Footing Concrete	M25	07/01/2023	04/02/2023	151.66 X 151.86 X 149.35	23031	8.840	610.0	26.5	
3	Footing Concrete	M25	07/01/2023	04/02/2023	151.25 X 150.90 X 150.97	22824	8.499	655.1	28.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30 **Date: 21/01/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Plinth Beam Concrete	M25	14/01/2023	21/01/2023	151.23 X 149.15 X 151.22	22557	8.694	525.5	23.3	22.8
2	Plinth Beam Concrete	M25	14/01/2023	21/01/2023	149.54 X 149.31 X 149.95	22328	8.687	503.5	22.6	
3	Plinth Beam Concrete	M25	14/01/2023	21/01/2023	149.65 X 151.63 X 151.59	22691	8.892	508.7	22.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/02/2023

Lab ID	:	CP-2023-04-24-30
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-23
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	14/01/2023	11/02/2023	150.23 X 150.04 X 150.62	22540	8.376	616.6	27.4	27.5
2	Plinth Beam Concrete	M25	14/01/2023	11/02/2023	151.29 X 151.86 X 149.72	22974	8.234	604.2	26.3	
3	Plinth Beam Concrete	M25	14/01/2023	11/02/2023	151.60 X 151.66 X 150.60	22993	8.725	665.7	29.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30 **Date: 24/01/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-01-23

Customer ID : Sump Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Sump Concrete	M25	17/01/2023	24/01/2023	149.30 X 151.06 X 151.54	22552	8.347	526.0	23.3	22.6
2	Sump Concrete	M25	17/01/2023	24/01/2023	150.08 X 150.69 X 149.53	22615	8.320	501.0	22.2	
3	Sump Concrete	M25	17/01/2023	24/01/2023	151.07 X 150.29 X 149.83	22704	8.830	510.2	22.5	

* The results obtained are satisfactory as per standard requirements

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Format No: CP/TF/01

Lab ID : CP-2023-04-24-30

Date: 14/02/2023

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-01-23

Customer ID : Sump Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M25	17/01/2023	14/02/2023	151.56 X 149.89 X 149.68	22717	9.059	627.4	27.6	27.8
2	Sump Concrete	M25	17/01/2023	14/02/2023	149.50 X 150.16 X 150.59	22450	8.445	603.8	26.9	
3	Sump Concrete	M25	17/01/2023	14/02/2023	149.67 X 150.08 X 150.84	22462	8.326	647.3	28.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30 **Date: 22/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No.04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-02-23

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M25	15/02/2023	22/02/2023	150.29 X 150.61 X 151.66	22636	8.851	521.4	23.0	22.6
2	Roof Concrete	M25	15/02/2023	22/02/2023	149.47 X 150.95 X 150.25	22563	8.405	497.6	22.1	
3	Roof Concrete	M25	15/02/2023	22/02/2023	150.44 X 150.63 X 151.38	22661	8.779	515.8	22.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/02/2023

Lab ID	:	**CP-2023-04-24-30**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division
Agency	:	Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M25	03/02/2023	10/02/2023	151.79 X 151.52 X 150.18	22999	8.628	545.6	23.7	23.1
2	Lintel Concrete	M25	03/02/2023	10/02/2023	149.05 X 149.59 X 150.71	22297	8.151	503.4	22.6	
3	Lintel Concrete	M25	03/02/2023	10/02/2023	151.47 X 150.09 X 150.36	22733	8.951	520.4	22.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-30 **Date: 20/03/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of RO plant at Srinivasapura in Kempegowda ward no-01 of Yelahanka Sub division

Agency : Sri Sambashiva, No:04, 3rd Main Road, Chamundeshwari Lo/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/44/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/02/2023	20/03/2023	149.28 X 150.34 X 150.38	22443	8.854	402.1	17.9	17.6
2	PCC	M15	20/02/2023	20/03/2023	149.31 X 151.19 X 149.45	22574	8.844	390.5	17.3	
3	PCC	M15	20/02/2023	20/03/2023	151.50 X 150.78 X 150.51	22843	9.025	400.5	17.5	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-04-24-30** **Date: 20-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	_
5	Loose Bulk Density (Kg/litre)	1.73	_

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-24-30** **Date: 21-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Lab ID : **CP-2023-04-24-30** **Date: 31-01-23**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	150	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	150	200	
3	403	152	200	
4	399	152	201	
5	403	150	203	
6	401	152	202	
7	400	150	200	
8	401	151	200	
9	403	149	202	
10	402	150	203	
11	403	150	201	
12	399	153	199	
13	399	151	200	
14	399	150	199	
15	403	150	200	
16	401	151	200	
17	404	151	202	
18	400	149	202	
19	399	151	203	
20	404	151	199	
Average of 20	401	151	201	

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BANGALORE

...no-01 of yelahanka Sub division

Lab ID : CP-2023-04-24-30 Date: 31-01-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	150	60198	261.7	4.3	4.4
2	401	150	60153	267.8	4.5	
3	403	152	61149	266.4	4.4	
4	399	152	60729	264.1	4.3	
5	403	150	60655	259.0	4.3	
6	401	152	61184	268.4	4.4	
7	400	150	60060	267.1	4.4	
8	401	151	60570	267.0	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Yes Sir

A.E.E

****End of Report****

site at kempegowda ward no-01 of yelahanka sub division